

Air Quality And Claims for Asthma Visits to Medicaid Providers
Lewis and Clark County, August 2009 - February 2012

Figure 1. Mean Daily PM_{2.5} Measurements,
Lewis & Clark County, 2009-2012
January 1

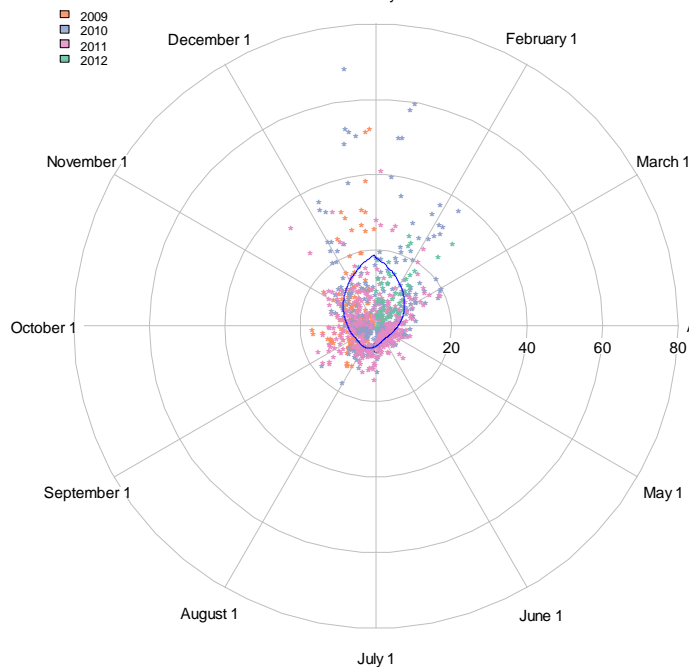
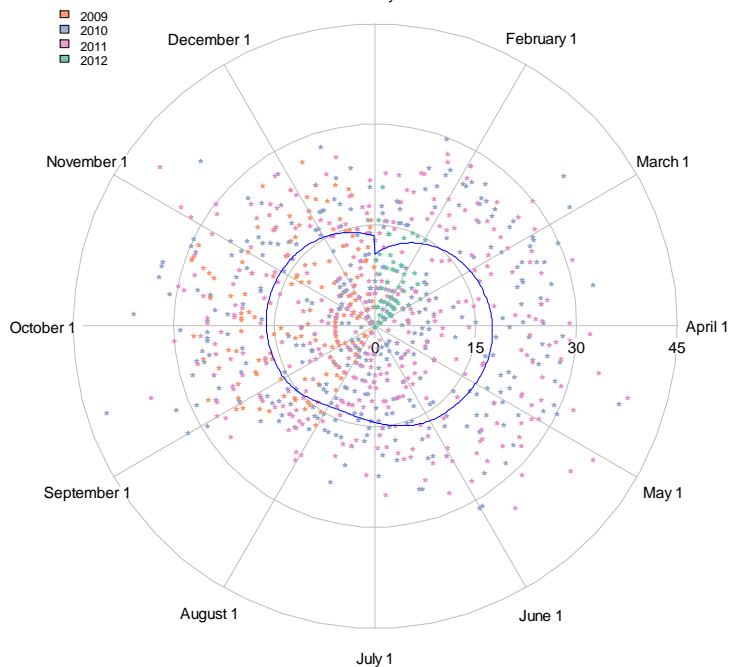


Figure 2. Asthma Claims,
Lewis & Clark County, 2009-2012
January 1



Comment: The graph on the left displays particulate matter (PM_{2.5}) measurements at Rossiter school and the graph on the right displays the number of physician visits paid for by Medicaid by calendar date using a polar system. The polar system, where distance from the origin represents the value of the response variable, organizes seasonal data better than line plots. The blue lines indicate a seasonal bulge in PM_{2.5} between December and February, with no corresponding pattern in asthma claims.

Software: Created in R 2.10.0 based on code from sas-and-r.blogspot.com.

Data sources: EPA Detailed AQS Data, Montana Medicaid Information System.

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